Nuclear Engineering and Design 133 (1992) 529–531
North-Holland

Author Index to Volume 133

Ainsworth, R.A. and P.J. Budden, Approximate inelastic analysis of defective components 133 (1992) 513
Almenas, K., see Wang, Z. 133 (1992) 285
Amir-Mazaheri, D., M. Bolvin and J. Moinet, French 1500 MW fast-reactor project: proposal for a reactor-bearing concrete slab 133 (1992) 133
Antolovich, S.D., see McDowell, D.L. 133 (1992) 383
Asada, Y., M. Kitagawa, N. Shimakawa, T. Kodaira, T. Asayama and Y. Wada, Standardization of procedures for the high-temperature crack growth testing for FBR materials in Japan 133 (1992) 465
Asada, Y., T. Shimakawa, M. Kitagawa, T. Kodaira, Y. Wada and T. Asayama, Analytical evaluation method of *J*-integral in creep–fatigue fracture for type 304 stainless steel 133 (1992) 361
Asayama, T., see Asada, Y. 133 (1992) 361
Asayama, T., see Asada, Y. 133 (1992) 465
Aziz, T.S., see Saudy, A. 133 (1992) 183

Badanin, V., Y.G. Dragunov, V. Fedorov, I. Gorynin and V. Nickolaev, Application of annealing for extension of WWER vessel lives 133 (1992) 71
Bass, B.R., J. Keeney-Walker, S.-J. Chang, J.S. Parrot, C.E. Pugh, K. Hornberger and C.W. Schwartz, Viscoplastic modeling of dynamic fracture events in reactor pressure vessel steels 133 (1992) 419
Bauernfeind, V., T. Bloem, W. Pache and H.J. Diederich, Vibration monitoring of the primary piping system during the hot functional tests of the Mülheim-Kärlich PWR 133 (1992) 17
Belytschko, T., see Harkness, H.H. 133 (1992) 209
Benallal, A., see Lemaitre, J. 133 (1992) 345
Bernard, J.L., J. Vagner, A. Pellissier-Tanon and F. Faure, Effect of residual stresses and complex loadings on the fatigue behavior of underclad cracks 133 (1992) 3
Berthaud, Y., see Ramtani, S. 133 (1991) 97
Bloem, T., see Bauernfeind, V. 133 (1992) 17
Bolvin, M., see Amir-Mazaheri, D. 133 (1992) 133
Bouchacourt, M., see Remy, F.N. 133 (1992) 23
Briegleb, P. and P. Mignot, Review of the Belgian experience of reactor core internal components 133 (1992) 41
Budden, P.J., see Ainsworth, R.A. 133 (1992) 513
Buff, B., see Larabi, M. 133 (1992) 505

Carter, K.F., see Cocks, A.C.F. 133 (1992) 317
Chandra, S., see Padmanabhan, M. 133 (1992) 169
Chang, S.-J., see Bass, B.R. 133 (1992) 419
Choi, S.H., see Krempl, E. 133 (1992) 401
Cocks, A.C.F., A.R.S. Ponter and K.F. Carter, Inelastic deformation and rupture under severe thermal loading 133 (1992) 317

Deardorff, A.F., see Gerber, T.L. 133 (1992) 31
Del Puglia, A., see Pratesi, F. 133 (1992) 325
Diederich, H.J., see Bauernfeind, V. 133 (1992) 17
diMarzo, M., see Wang, Z. 133 (1992) 285
Dragunov, Y.G., see Badanin, V. 133 (1992) 71

Fanous, F., L. Greimann and W. Wassef, Analysis of an ice-condenser containment building anchorage system 133 (1992) 159
Faure, F., see Bernard, J.L. 133 (1992) 3
Fedorov, V., see Badanin, V. 133 (1992) 71
Fujimoto, T., see Nishioka, T. 133 (1992) 433
Fukakura, J., see Kuwabara, K. 133 (1992) 335
Fukuda, Y., see Kuwabara, K. 133 (1992) 335
Furuhashi, I., see Watashi, K. 133 (1992) 489

Gerber, T.L., A.F. Deardorff, D.M. Norris and W.F. Lucas, Acceptance criteria for structural evaluation of erosion–corrosion thinning in carbon steel piping 133 (1992) 31
Ghobarah, A., see Saudy, A. 133 (1992) 183
Ghosh, A.K., A semi analytical model for Fourier amplitude spectrum of earthquake ground motion 133 (1992) 199
Glaeser, H., Downcomer and tie plate countercurrent flow in the Upper Plenum Test Facility (UPTF) 133 (1992) 259
Gorynin, I., see Badanin, V. 133 (1992) 71
Granger, S., see Larabi, M. 133 (1992) 505
Greimann, L., see Fanous, F. 133 (1992) 159
Grondahl, E., see Padmanabhan, M. 133 (1992) 169

Hagihara, S., see Miyazaki, N. 133 (1992) 245
Harkness, H.H., T. Belytschko and W.K. Liu, Finite element reliability analysis of fatigue life 133 (1992) 209
Hiroe, T. and T. Igari, The viscoplasticity theory applied to the inelastic analysis at elevated temperatures 133 (1992) 225
Hornberger, K., see Bass, B.R. 133 (1992) 419
Hotta, H., see Suzuki, T. 133 (1992) 121
Hsu, T.-R., Computational thermofracture mechanics and life prediction 133 (1992) 447
Hsu, Y.Y., see Wang, Z. 133 (1992) 285

Igari, T., see Hiroe, T. 133 (1992) 225

Jokela, J., Long-term tests of reinforced concrete beams loaded by temperature gradient or settlement of a support 133 (1992) 113

Kawaguchi, S., see Kuwabara, K. 133 (1992) 335
Keeney-Walker, J., see Bass, B.R. 133 (1992) 419
Kennedy, J.M., see Pfeiffer, P.A. 133 (1992) 143
Kitagawa, M., see Asada, Y. 133 (1992) 361
Kitagawa, M., see Asada, Y. 133 (1992) 465
Kodaira, T., see Asada, Y. 133 (1992) 361
Kodaira, T., see Asada, Y. 133 (1992) 465
Kollmann, F.G., Viscoplastic analysis of shells of revolution under axisymmetric loads 133 (1992) 475
Krempl, E. and S.H. Choi, Viscoplasticity theory based on overstress: the modeling of ratchetting and cyclic hardening of AISI type 304 stainless steel 133 (1992) 401
Kuwabara, K., Y. Takahashi, S. Kawaguchi, Y. Fukuda and J. Fukakura, Fatigue strength of dissimilar welded joints for the main vessel of an LMFBR 133 (1992) 335

Larabi, M., B. Buff and S. Granger, Numerical simulation of local non-linearities due to tube–support interaction (*technical note*) 133 (1992) 505
LeClair, M.L., see Padmanabhan, M. 133 (1992) 169
Lemaitre, J., A. Benallal and D. Marquis, Lifetime prediction of structures in anisothermal viscoplasticity coupled to damage 133 (1992) 345
Light, G.M., see Tsai, Y.M. 133 (1992) 77
Liu, S.N., see Tsai, Y.M. 133 (1992) 77
Liu, W.K., see Harkness, H.H. 133 (1992) 209
Lucas, W.F., see Gerber, T.L. 133 (1992) 31
Luong, M.P., Fracture testing of concrete and rock materials 133 (1992) 83

Marchertas, A.H., see Pfeiffer, P.A. 133 (1992) 143
Marquis, D., see Lemaitre, J. 133 (1992) 345
Mazars, J., see Ramtani, S. 133 (1991) 97
McDowell, D.L., S.D. Antolovich and R.L.T. Oehmke, Mechanistic considerations for TMF life prediction of nickel-base superalloys 133 (1992) 383
Mehedinteanu, S., Recent new improvements of computer codes for nuclear fuel elements performance analysis 133 (1992) 239
Mignot, P., see Briegleb, P. 133 (1992) 41
Mignot, P., see Roussel, G. 133 (1992) 63
Miyazaki, N., S. Hagihara, T. Ueda, T. Munakata and K. Soda, Finite element dynamic bifurcation buckling analysis of torispherical head of BWR containment vessel subjected to internal pressure 133 (1992) 245
Moinet, J., see Amir-Mazaheri, D. 133 (1992) 133
Morel, A.R. and L.J. Reynes, Short-term degradation mechanisms of piping 133 (1992) 37
Munakata, T., see Miyazaki, N. 133 (1992) 245
Murakami, T., see Nishioka, T. 133 (1992) 433

Nickolaev, V., see Badanin, V. 133 (1992) 71
Nilsson, F., Numerical investigation of *J*-characterization of growing crack tips 133 (1992) 457
Nishioka, T., T. Fujimoto, K. Sakai, T. Murakami and K. Sakakura, A method of caustics for the direct experimental measurement of the *T*-integral in nonlinear and dynamic fracture mechanics problems 133 (1992) 433
Norris, D.M., see Gerber, T.L. 133 (1992) 31

Oehmke, R.L.T., see McDowell, D.L. 133 (1992) 383
Ohno, N. and J. Wang, Nonisothermal constitutive modeling of inelasticity based on bounding surface 133 (1992) 369

Pache, W., see Bauernfeind, V. 133 (1992) 17
Padmanabhan, M., M.L. LeClair, S. Chandra and E. Grondahl, Flow distribution at the bottom region of a steam generator tube bundle 133 (1992) 169
Parrot, J.S., see Bass, B.R. 133 (1992) 419
Pellissier-Tanon, A., see Bernard, J.L. 133 (1992) 3
Pfeiffer, P.A., J.M. Kennedy and A.H. Marchertas, Post-test analysis for the nonlinear response of an internally pressurized one sixth scale reinforced concrete containment model 133 (1992) 143
Ponter, A.R.S., see Cocks, A.C.F. 133 (1992) 317
Popelar, C.H. and Y.C. Sheu, The characteristics of viscoplastic effects in dynamic crack propagation in nuclear reactor pressure vessel steels 133 (1992) 411
Pratesi, F., G. Zonfrillo and A. Del Puglia, Fatigue maps and multistage life prediction methods 133 (1992) 325
Pugh, C.E., see Bass, B.R. 133 (1992) 419

Ramtani, S., Y. Berthaud and J. Mazars, Orthotropic behavior of concrete with directional aspects: modelling and experiments 133 (1991) 97
Remy, F.N. and M. Bouchacourt, Flow-assisted corrosion: a method to avoid damage 133 (1992) 23
Reynes, L.J., see Morel, A.R. 133 (1992) 37
Roussel, G. and P. Mignot, Behaviour of steam generator tubes in Belgium and its consequences 133 (1992) 63

Sakai, K., see Nishioka, T. 133 (1992) 433
Sakakura, K., see Nishioka, T. 133 (1992) 433
Saudy, A., A. Ghobarah and T.S. Aziz, A modified CCFS approach for the seismic analysis of multiply supported MDOF secondary systems 133 (1992) 183
Schwartz, C.W., see Bass, B.R. 133 (1992) 419
Shah, V.N., see Ware, A.G. 133 (1992) 49
Sheu, Y.C., see Popelar, C.H. 133 (1992) 411
Shimakawa, N., see Asada, Y. 133 (1992) 465
Shimakawa, T., see Asada, Y. 133 (1992) 361
Soda, K., see Miyazaki, N. 133 (1992) 245
Suzuki, T., K. Takiguchi and H. Hotta, Leakage of gas through concrete cracks 133 (1992) 121

Takahashi, Y., see Kuwabara, K. 133 (1992) 335
Takiguchi, K., see Suzuki, T. 133 (1992) 121
Tsai, Y.M., S.N. Liu and G.M. Light, Crack-depth effects in the cylindrically guided wave technique for bolt and pump-shaft inspections 133 (1992) 77

Ueda, T., see Miyazaki, N. 133 (1992) 245
Unal, C., see Wang, Z. 133 (1992) 285

Vagner, J., see Bernard, J.L. 133 (1992) 3

Wada, Y., see Asada, Y. 133 (1992) 361
Wada, Y., see Asada, Y. 133 (1992) 465
Wang, J., see Ohno, N. 133 (1992) 369
Wang, Z., K. Almenas, M. diMarzo, Y.Y. Hsu and C. Unal, Impact of rapid condensations of large vapor spaces on natural circulation in integral systems 133 (1992) 285
Ware, A.G. and V.N. Shah, Age-related degradation of boiling water reactor vessel internals 133 (1992) 49
Wassef, W., see Fanous, F. 133 (1992) 159
Watashi, K., I. Furuhashi and H. Yoshida, Analytical crack growth evalulation of a plate with a surface crack 133 (1992) 489

Yoshida, H., see Watashi, K. 133 (1992) 489

Zahoor, A., A compound crack in a pipe under tension 133 (1992) 253
Zonfrillo, G., see Pratesi, F. 133 (1992) 325

Nuclear Engineering and Design 133 (1992) 533–535
North-Holland

Subject Index to Volume 133

Thermal and fluid design

Flow distribution at the bottom region of a steam generator tube bundle, M. Padmanabhan, M.L. LeClair, S. Chandra and E. Grondahl 133 (1992) 169
Impact of rapid condensations of large vapor spaces on natural circulation in integral systems, Z. Wang, K. Almenas, M. diMarzo, Y.Y. Hsu and C. Unal 133 (1992) 285

Fluid dynamics

Downcomer and tie plate countercurrent flow in the Upper Plenum Test Facility (UPTF), H. Glaeser 133 (1992) 259

Engineering mechanics

Effect of residual stresses and complex loadings on the fatigue behavior of underclad cracks, J.L. Bernard, J. Vagner, A. Pellissier-Tanon and F. Faure 133 (1992) 3
Flow-assisted corrosion: a method to avoid damage, F.N. Remy and M. Bouchacourt 133 (1992) 23
Acceptance criteria for structural evaluation of erosion–corrosion thinning in carbon steel piping, T.L. Gerber, A.F. Deardorff, D.M. Norris and W.F. Lucas 133 (1992) 31
Short-term degradation mechanisms of piping, A.R. Morel and L.J. Reynes 133 (1992) 37
Fracture testing of concrete and rock materials, M.P. Luong 133 (1992) 83
Post-test analysis for the nonlinear response of an internally pressurized one sixth scale reinforced concrete containment model, P.A. Pfeiffer, J.M. Kennedy and A.H. Marchertas 133 (1992) 143
A modified CCFS approach for the seismic analysis of multiply supported MDOF secondary systems, A. Saudy, A. Ghobarah and T.S. Aziz 133 (1992) 183
The viscoplasticity theory applied to the inelastic analysis at elevated temperatures, T. Hiroe and T. Igari 133 (1992) 225
Finite element dynamic bifurcation buckling analysis of torispherical head of BWR containment vessel subjected to internal pressure, N. Miyazaki, S. Hagihara, T. Ueda, T. Munakata and K. Soda 133 (1992) 245
A compound crack in a pipe under tension, A. Zahoor 133 (1992) 253
Inelastic deformation and rupture under severe thermal loading, A.C.F. Cocks, A.R.S. Ponter and K.F. Carter 133 (1992) 317
Fatigue maps and multistage life prediction methods, F. Pratesi, G. Zonfrillo and A. Del Puglia 133 (1992) 325
Lifetime prediction of structures in anisothermal viscoplasticity coupled to damage, J. Lemaitre, A. Benallal and D. Marquis 133 (1992) 345
Analytical evaluation method of *J*-integral in creep–fatigue fracture for type 304 stainless steel, Y. Asada, T. Shimakawa, M. Kitagawa, T. Kodaira, Y. Wada and T. Asayama 133 (1992) 361
Nonisothermal constitutive modeling of inelasticity based on bounding surface, N. Ohno and J. Wang 133 (1992) 369
Mechanistic considerations for TMF life prediction of nickel-base superalloys, D.L. McDowell, S.D. Antolovich and R.L.T. Oehmke 133 (1992) 383
Viscoplasticity theory based on overstress: the modeling of ratchetting and cyclic hardening of AISI type 304 stainless steel, E. Krempl and S.H. Choi 133 (1992) 401
The characteristics of viscoplastic effects in dynamic crack propagation in nuclear reactor pressure vessel steels, C.H. Popelar and Y.C. Sheu 133 (1992) 411
Viscoplastic modeling of dynamic fracture events in reactor pressure vessel steels, B.R. Bass, J. Keeney-Walker, S.-J. Chang, J.S. Parrot, C.E. Pugh, K. Hornberger and C.W. Schwartz 133 (1992) 419
A method of caustics for the direct experimental measurement of the *T*-integral in nonlinear and dynamic fracture mechanics problems, T. Nishioka, T. Fujimoto, K. Sakai, T. Murakami and K. Sakakura 133 (1992) 433

Computational thermofracture mechanics and life prediction, T.-R. Hsu 133 (1992) 447
Numerical investigation of *J*-characterization of growing crack tips, F. Nilsson 133 (1992) 457
Viscoplastic analysis of shells of revolution under axisymmetric loads, F.G. Kollmann 133 (1992) 475
Analytical crack growth evalulation of a plate with a surface crack, K. Watashi, I. Furuhashi and H. Yoshida 133 (1992) 489
Approximate inelastic analysis of defective components, R.A. Ainsworth and P.J. Budden 133 (1992) 513
Numerical simulation of local non-linearities due to tube–support interaction (*technical note*), M. Larabi, B. Buff and S. Granger 133 (1992) 505

Materials properties

Flow-assisted corrosion: a method to avoid damage, F.N. Remy and M. Bouchacourt 133 (1992) 23
Review of the Belgian experience of reactor core internal components, P. Briegleb and P. Mignot 133 (1992) 41
Age-related degradation of boiling water reactor vessel internals, A.G. Ware and V.N. Shah 133 (1992) 49
Behaviour of steam generator tubes in Belgium and its consequences, G. Roussel and P. Mignot 133 (1992) 63
Application of annealing for extension of WWER vessel lives, V. Badanin, Y.G. Dragunov, V. Fedorov, I. Gorynin and V. Nickolaev 133 (1992) 71
Long-term tests of reinforced concrete beams loaded by temperature gradient or settlement of a support, J. Jokela 133 (1992) 113
Finite element reliability analysis of fatigue life, H.H. Harkness, T. Belytschko and W.K. Liu 133 (1992) 209
The viscoplasticity theory applied to the inelastic analysis at elevated temperatures, T. Hiroe and T. Igari 133 (1992) 225
A compound crack in a pipe under tension, A. Zahoor 133 (1992) 253
Fatigue maps and multistage life prediction methods, F. Pratesi, G. Zonfrillo and A. Del Puglia 133 (1992) 325
Fatigue strength of dissimilar welded joints for the main vessel of an LMFBR, K. Kuwabara, Y. Takahashi, S. Kawaguchi, Y. Fukuda and J. Fukakura 133 (1992) 335
Lifetime prediction of structures in anisothermal viscoplasticity coupled to damage, J. Lemaitre, A. Benallal and D. Marquis 133 (1992) 345
Viscoplasticity theory based on overstress: the modeling of ratchetting and cyclic hardening of AISI type 304 stainless steel, E. Krempl and S.H. Choi 133 (1992) 401
Standardization of procedures for the high-temperature crack growth testing for FBR materials in Japan, Y. Asada, M. Kitagawa, N. Shimakawa, T. Kodaira, T. Asayama and Y. Wada 133 (1992) 465

Mechanical design, component fabrication and testing

Vibration monitoring of the primary piping system during the hot functional tests of the Mülheim-Kärlich PWR, V. Bauernfeind, T. Bloem, W. Pache and H.J. Diederich 133 (1992) 17
Acceptance criteria for structural evaluation of erosion–corrosion thinning in carbon steel piping, T.L. Gerber, A.F. Deardorff, D.M. Norris and W.F. Lucas 133 (1992) 31
Short-term degradation mechanisms of piping, A.R. Morel and L.J. Reynes 133 (1992) 37
Crack-depth effects in the cylindrically guided wave technique for bolt and pump-shaft inspections, Y.M. Tsai, S.N. Liu and G.M. Light 133 (1992) 77
Fatigue strength of dissimilar welded joints for the main vessel of an LMFBR, K. Kuwabara, Y. Takahashi, S. Kawaguchi, Y. Fukuda and J. Fukakura 133 (1992) 335

Structural design, construction methods and testing

Fracture testing of concrete and rock materials, M.P. Luong 133 (1992) 83
Long-term tests of reinforced concrete beams loaded by temperature gradient or settlement of a support, J. Jokela 133 (1992) 113
Leakage of gas through concrete cracks, T. Suzuki, K. Takiguchi and H. Hotta 133 (1992) 121
French 1500 MW fast-reactor project: proposal for a reactor-bearing concrete slab, D. Amir-Mazaheri, M. Bolvin and J. Moinet 133 (1992) 133
Post-test analysis for the nonlinear response of an internally pressurized one sixth scale reinforced concrete containment model, P.A. Pfeiffer, J.M. Kennedy and A.H. Marchertas 133 (1992) 143
Analysis of an ice-condenser containment building anchorage system, F. Fanous, L. Greimann and W. Wassef 133 (1992) 159

Core physics and fuel design

Recent new improvements of computer codes for nuclear fuel elements performance analysis, S. Mehedinteanu 133 (1992) 239

Nuclear safety

Review of the Belgian experience of reactor core internal components, P. Briegleb and P. Mignot 133 (1992) 41
Age-related degradation of boiling water reactor vessel internals, A.G. Ware and V.N. Shah 133 (1992) 49
Behaviour of steam generator tubes in Belgium and its consequences, G. Roussel and P. Mignot 133 (1992) 63
A semi analytical model for Fourier amplitude spectrum of earthquake ground motion, A.K. Ghosh 133 (1992) 199
Impact of rapid condensations of large vapor spaces on natural circulation in integral systems, Z. Wang, K. Almenas, M. di-Marzo, Y.Y. Hsu and C. Unal 133 (1992) 285
Orthotropic behavior of concrete with directional aspects: modelling and experiments, S. Ramtani, Y. Berthaud and J. Mazars 133 (1991) 97
Orthotropic behavior of concrete with directional aspects: modelling and experiments, S. Ramtani, Y. Berthaud and J. Mazars 133 (1991) 97